# Kings Byte

## The Kings County
## TRS-80 Users Group

### KINGS BYTE OFFICERS

| | |
|---|---|
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### AREA TRS-80 USER GROUPS

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### AREA TRS-80 BULLETIN BOARDS

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| CONNECTION 80 B'KLYN | (212)277-5851 | CONN 80 STONY PT | (914)942-2638 |

### KINGS BYTE MEETINGS

Our meetings take place on the first Wednesday of each month at BAM (B'klyn Academy of Music) located near the Atlantic Ave. and Pacific St. subway stations.  It is also near the L.I.R.R station.

Meetings start at 7:00 PM.  Assembly language course at 7:30 PM. Lectures and/or demonstrations start at 8:15 PM.  For up-to-date information call our Official Contact, Morty Libowitz at (212)763-4233.

## President's Keyboard
### by
### Steve Abramowitz


Hi Everybody!  By the time you read this,  I hope to be  back  from my  second trip this month to Florida.  The first was a vacation and the second was to celebrate my son Michael's Bar Mitzah.

I understand that the Word Processing Seminar at our  last  meeting was  so good that it could be called "ELECTRIC".  My thanks and a tip of the hat to all of the particpants; Barry Kornfeld, Stan Milgrim,  Walter Gorkiewcz,  and  Lou  Shapiro.  My  thanks  also  to Kal who chaired the December meeting in my absence.

We have a very exciting meeting planned for January 6, 1982 (oops I almost wrote '81).  Stephen Leon will discuss CP/M on the TRS 80 Model I and will demonstrate  it  with  an  Omicron Mapper. Many  of  you  are familiar  with the TRSDOS family of operating systems, but CP/M is quite different.  Some of us have a modified CP/M version 1.4 but Stephen will be using the more recent version 2.

Now  that  IBM  and  XEROX  have  selected  CP/M  for  their  small computers, (since they don't know how to write software  for  MICROS  -- just  kidding)  CP/M  has  become  the de facto industry standard.  It's principal feature is its system portability. However,  as  we  are  all learning,  sometimes the operating system has so many bells and whistles of its own and many application programs do not run correctly,  or  even run.  For  example,  about  one-half of the 38 or 39 patches or zaps for the latest version of Newdos 80 (version 2) are to application  programs so  that  they  can  run  on that system.  There are patches for Pencil, Scripsit, Viscalc, and the Radio Shack Cobol & Basic Compilers.

The newest version of LDOS 5.1.1 also contains some Patch files for Pencil, Visicalc and 2 different ones for Scripsit. LDOS has added a few features to Visicalc, and has created a really outstanding  new  version of  Scripsit,  which  LDOS  calls  LSCRIPT. Frankly,  the  price of the operating system is worth it  alone  for  the  LSCRIPT  file.  But  LDOS remains,  in  my  opinion, the most advanced and sophisticated of all of the TRSDOS based operating systems.  It will be interesting to  see  how CP/M version 2.2 the "de facto industry standard" compares.

Our  public  domain disk library is in trouble. We have a number of long overdue disks outstanding. Members  should  try  to  return  their library  disk  to  Morty  at the next meeting, or mail it back to him if they are unable to attend.  If this situation continues, we may have  to require  a  refundable  deposit  check of $3.00 to cover the cost of the media.

Happy holidays!  Happy New Year!  Happy Computing!

Steve

GUIDE TO THE USE OF SCRIPSIT - Second Part
==============================================

REMOVING HYPHENS IN TEXT (E.G., PRIOR TO EDITING):

ANY CHANGE IN THE TEXT OR IN THE MARGIN COMMANDS OF    29
    A DOCUMENT AFTER IT HAS BEEN HYPHENATED NECESSITATES
    REMOVING EXISTING HYPHENS AND RE-HYPHENATING; THE
    REMOVAL SHOULD TAKE PLACE BEFORE EDITING -- THE
    RE-HYPHENATION SHOULD BE DONE AFTER COMPLETION
    OF EDITING

| | | |
|---|---|---|
| IMPORTANT NOTE: | | THE SCREEN WIDTH MUST BE SET TO THE SAME LENGTH AS THE LINES PRINTED ON HARDCOPY |
| * | ----- | SUBTRACT LEFT MARGIN VALUE FROM RIGHT MARGIN VALUE; CALL THE DIFFERENCE THUS OBTAINED "X" (USE IN SECOND LINE BELOW) |
| | BREAK | |
| | W=X(CR) | TO SET SCREEN LINE LENGTH EQUAL TO PRINTED LINE LENGTH |
| | ----- | PUT THIS "X" VALUE IN A COMMENT LINE AT TOP OF TEXT FOR FUTURE REFERENCE |
| * | ----- | POSITION CURSOR OVER FIRST SPACE OR CHARACTER IN TEXT WHERE YOU WANT HYPHENATION TO BEGIN |
| | CTRL Q | |
| | - | |
| | ----- | NOW POSITION CURSOR OVER THE LINE END MARKER (GRAPHIC BLOCK) WHICH TERMINATES THE LAST LINE IN WHICH YOU WANT HYPHENATION |
| | CTRL Q | |
| | CTRL DN ARROW | |
| | BREAK | |
| | H(CR) | |
| | 2(CR) | SPECIFY "2" FOR THE "HOT ZONE" |
| | ----- | AT THE FIRST HYPHEN DECISION |
| | CLEAR | THE HYPHENS HAVE NOW BEEN DELETED |

WINDOW COMMAND MODE:

| | | |
|---|---|---|
| * | CTRL W | THEN USE THE 4 ARROW KEYS TO SCROLL   54 THE TEXT THROUGH THE WINDOW |
| * | CLEAR | WILL CANCEL THE WINDOW MODE (AS WILL THE USE OF ANY OTHER COMMAND) |

USE OF "CLEAR" KEY:

| | | |
|---|---|---|
| * | CLEAR | CANCELS INSERT MODE AND DELETES   20 ALL SPACES UP TO THE FIRST |

|   |   |   |   |
|---|---|---|---|
|   |   | ALPHANUMERIC CHARACTER (INCLUDING SPACES WHICH ARE AUTOMATICALLY INSERTED BY A PARAGRAPH BOUNDARY MARKER) |   |
| * | CLEAR | CANCELS ANY INSTRUCTION WHICH IS "IN PROGRESS" -- SUCH AS A PRINTOUT OR A GLOBAL COMMAND | 20 |
| * | CLEAR | CANCELS MESSAGES ON THE MESSAGE LINE AT THE BOTTOM OF THE SCREEN | 20 |
| * | CLEAR | WILL REFORMAT THE CURRENT AND PREVIOUS LINE IF NEEDED AFTER AN EDITING OPERATION HAS REPLACED A LONG FIRST-WORD IN A LINE WITH A WORD WHICH IS NOW SHORT ENOUGH TO FIT ON THE PREVIOUS LINE; PRESS CLEAR AFTER EDITING THE WORD | 20 |
| * | CLEAR | CANCELS ANY SPECIAL COMMAND LINE PROMPT WHICH WAS OBTAINED BY PRESSING BREAK | 20 |

## STATUS INQUIRY:

| | | | |
|---|---|---|---|
| * | BREAK<br>?W(CR) | TO DETERMINE LINE WIDTH ON SCREEN (DEFAULT IS 60) | 12 |
| * | BREAK<br>W=X(CR) | TO RESET SCREEN LINE WIDTH TO "X" CHARACTERS (DEFAULT 60) | 15 |
| * | BREAK<br>?I(CR) | GIVES PARAGRAPH INDENTATION (DEFAULT IS 5) | 12 |
| * | BREAK<br>I=X(CR) | TO RESET PARAGRAPH INDENTATION | 15 |
| * | BREAK<br>?L(CR) | TO DETERMINE THE NUMBER OF CHARACTERS YOU HAVE TYPED | 12 |
| * | BREAK<br>?M(CR) | TO DETERMINE THE NUMBER OF CHARACTERS WHICH CAN YET FIT IN MEMORY (32668 MAX IN 48K) | 12 |
| * | BREAK<br>?C(CR) | LINE NUMBER OF LAST LINE TO CONTAIN THE CURSOR | 12 |
| * | BREAK<br>?N(CR) | DISPLAYS CURRENT FILENAME | 12 |

## FORMAT COMMANDS FOR PRINTED OUTPUT:

| | | |
|---|---|---|
| SAMPLE FORMAT LINE: | | 15,18 |
| *   >LM=10 RM=70 TM=3 BM=63 PF=2 | | 37 |
| | LEFT MARGIN = 10 SPACES FROM LEFT EDGE | |
| | RIGHT MARGIN = 70 SPACES FROM LEFT EDGE | |
| | TOP MARGIN = 3 LINES FROM TOP EDGE | |
| | BOTTOM MARGIN = 63 LINES FROM TOP EDGE | |
| | PARAGRAPH FORMAT = 1 LINE BETWEEN PARA | |
| | THIS GIVES A LINE LENGTH OF 60 WITH 60 LINES/PAGE | |

COMMAND SUMMARY:

| | COMMAND | FUNCTION | DEFLT |
|---|---|---|---|
| * | LM=X | LEFT MARGIN | 12 |
| * | RM=X | RIGHT MARGIN | 72 |
| * | TM=X | TOP MARGIN | 6 |
| * | BM=X | BOTTOM MARGIN | 60 |
| * | PF=X | PARAGRAPH FORMAT (1=NO LINE B/N) | 1 |
| * | LS=X | LINE SPACING (1=SINGLE SPACING) | 1 |
| * | PL=X | PAGE LENGTH (# OF PHYSICAL LINES) | 66 |
| * | J=Y | LEFT & RIGHT JUSTIFICATION | Y |
| * | J=N | LEFT JUSTIFICATION ONLY (SEE NOTE) | Y |
| * | C=Y | CENTER TEXT B/N LEFT & RIGHT | N |
| * | C=N | STOP CENTERING OF TEXT | N |
| * | FR=Y | RIGHT JUSTIFICATION ONLY | N |
| * | FR=N | DISABLE RIGHT JUSTIFY ONLY | N |
| * | VC=Y | VERTICALLY CENTER TEXT | N |
| * | VC=N | DISABLE VERTICAL CENTERING | N |
| * | P=Y | ENABLE PRINTING | Y |
| * | P=N | SUSPEND PRINTING TEMPORARILY | Y |
| * | H=X | FIRST HEADER TO APPEAR ON PAGE X | |
| * | F=X | FIRST FOOTER TO APPEAR ON PAGE X | |
| * | H=Y | ENABLE HEADERS | |
| * | H=N | DISABLE HEADERS | |
| * | F=Y | ENABLE FOOTERS | |
| * | F=N | DISABLE FOOTERS | |
| * | H=E | PRINT EVEN HEADER ON NEXT PAGE | |
| * | H=O | PRINT ODD HEADER ON NEXT PAGE | |
| * | F=E | PRINT EVEN FOOTER ON NEXT PAGE | |
| * | F=O | PRINT ODD FOOTER ON NEXT PAGE | |
| * | PN=X | BEGIN PAGE NUMBERS WITH VALUE OF X | |

NOTES:

| | | | |
|---|---|---|---|
| * | ----- | SEE HIERARCHY RULES ON PAGE 18 OF SCRIPSIT MANUAL | |
| * | ----- | EVEN HEADERS/FOOTERS ARE FLUSH RIGHT | |
| * | ----- | ODD HEADERS/FOOTERS ARE FLUSH LEFT | |
| * | ----- | IF FLUSH LEFT ONLY IS DESIRED AND ANY OF THESE ARE IN EFFECT: | 18 |

```
                              J=Y
                              C=Y
                              FR=Y
                      THEN THE FOLLOWING COMMAND(S)
                      MUST BE USED TO DISABLE ITS
                      COUNTERPART ABOVE:
                              J=N
                              C=N
                              FR=N
```

| | | | |
|---|---|---|---|
| * | ----- | ANY COMMANDS WHICH CHANGE THE PAGE BOUNDARIES | 51 |

```
                              TM
                              BM
```

```
                              VC
                              PL
                              PN
                              H
                              F
                    MUST PRECEDE THE TEXT TO WHICH
                    THEY APPLY.  THEY MUST BE AT TOP
                    OF TEXT OR MUST FOLLOW A PAGE
                    BOUNDARY MARKER (DOWN ARROW).
```

## HEADERS (NO PAGE NUMBER IN HEADER):

```
*   CTRL Q              DISPLAYS BLOCK START MARKER      24,38
    HS                  DESIGNATES HEADER TO APPEAR ON
                            ALL PAGES (ODD & EVEN)
    J=N                 DISABLE LEFT/RIGHT JUSTIFICATION
    SPACE BAR           SEPARATE COMMANDS WITH A SPACE
    C=Y                 CENTER HEADER TEXT
    (CR)                END FORMAT LINE WITH ENTER
    -----               TYPE HEADER TEXT HERE & ENTER
    -----               INSERT ANY BLANK LINES WITH ENTER
    CTRL Q              TO END THE HEADER BLOCK
    CTRL DN ARROW
    (CR)
    CLEAR
```

## FOOTERS WITH PAGE NUMBERS:

```
NOTE:  IF A HEADER IS NOT BEING USED, SKIP TO ASTERISK
        -----               POSITION CURSOR ON TOP OF THE
                                GRAPHIC BLOCK FOR ENTER WHICH
                                IMMEDIATELY FOLLOWS THE HEADER
                                BLOCK END MARKER
    CTRL S              TO INSERT THE FOOTER BLOCK
    CTRL X
*   CTRL Q              DISPLAYS BLOCK START MARKER      26,38
    FS                  SIGNIFIES FOOTER TO APPEAR ON EVERY
                            PAGE (ODD & EVEN)
    J=N                 DISABLE LEFT/RIGHT JUSTIFY
    SPACE BAR           SEPARATE COMMANDS WITH A SPACE
    C=Y                 CENTER THE PAGE NUMBER AND ANY OTHER
                            FOOTER TEXT
    (CR)                END FORMAT LINE WITH ENTER
    -----               INSERT ANY BLANK LINES WITH ENTER
    PAGE                TYPE "PAGE " (NOTE SPACE AFTER WORD)
    CTRL Q              BEGIN PAGE-NUMBERING SUB-BLOCK
    P                   DESIGNATES A PAGE BLOCK
    ##                  TWO TO FIVE "#" SYMBOLS DEPENDING
                            ON THE MAX DIGITS ANTICIPATED
    CTRL Q
    CTRL DN ARROW
    (CR)                END OF PAGE-NUMBERING SUB-BLOCK
```

```
      CTRL Q              FOOTER BLOCK END MARKER
      CTRL DN ARROW
NOTE:   IF HEADER IS USED WITH THIS FOOTER, SKIP TO ASTERISK
      (CR)                (CR) ONLY IF NO HEADER IS BEING USED;
                          IF HEADER USED, THE (CR) WHICH
                          TERMINATED THE HEADER IS STILL
                          "IN THE SYSTEM" AND NEED NOT BE
                          DUPLICATED (IT WILL "REAPPEAR"
                          AFTER THE NEXT STEP)
*     CLEAR               CLOSES UP THE TEXT (AND APPENDS THE
                          (CR) WHICH WAS DISPLACED BY THE
                          INSERTION OF THE FOOTER AFTER THE
                          HEADER'S BLOCK END MARKER -- IF
                          HEADER WAS USED WITH THIS FOOTER)
```

TITLE PAGE:

```
*     >VC=Y               TO VERTICALLY CENTER TEXT          34
      >C=Y                TO CENTER TEXT LEFT & RIGHT
      ------              TYPE TEXT HERE (AS MANY LINES
                          AS NEEDED -- USE BLANK LINES
                          AS REQUIRED TO SPACE TEXT AS
                          IN SEPARATING TITLE FROM
                          AUTHOR FROM DATE)
      CTRL V              TO FORCE AN END-OF-PAGE (A PAGE
                          BOUNDARY MARKER)
      >VC=N C=N           TO DISABLE CENTERING COMMANDS
```

PRINTING:

```
NOTE:   BEFORE PRINTING, DELETE CHARACTERS AT END OF TEXT
      CTRL D              POSITION CURSOR AFTER LAST (CR)
      CTRL F                AT END OF TEXT
THEN USE ONE OF THE FOLLOWING AS APPROPRIATE:
*     BREAK               FOR NORMAL PRINTOUT                22,46
      P(CR)
*     BREAK               FOR PRINTOUT WHICH INCLUDES CMDS   24,46
      P,I(CR)                @(SEE NOTES BELOW ON SYMBOLS)
*     BREAK               FOR PRINTING ON SINGLE SHEETS      22,46
      P,P(CR)
*     BREAK               FOR SERIAL PRINTER                 3,22
      P,S(CR)                (I AND P OPTIONS ABOVE MAY      46
                          BE USED WITH SERIAL PRINTERS)
```

SYMBOLS ON PRINTOUT WITH "I" OPTION REQUESTED:

```
*     UNDERLINE CHAR    (CR) OR ENTER                        34
*     $                 PARAGRAPH MARKER                     34
*     BACKSLASH CHAR    PAGE MARKER                          34
*     >*                COMMENT LINE                         34
*     >                 FORMAT LINE                          34
```

* OPEN BRACKET     BLOCK START MARKER
* CLOSE BRACKET    BLOCK END MARKER


PRINTING PART OF A DOCUMENT:

COPY MARKERS ARE USED TO MARK SECTION TO BE PRINTED
*   -----           POSITION CURSOR WHERE YOU WANT    43
                          PRINTING TO START
  BREAK
  C(CR)            DISPLAY COPY MARKER --
                          PRINTING WILL BEGIN HERE
  -----            POSITION CURSOR WHERE YOU WANT
                          PRINTING TO STOP -- THE
                          CURSOR MUST FOLLOW A TEXT
                          BOUNDARY MARKER
  BREAK
  C(CR)            DISPLAY COPY MARKER --
                          PRINTING WILL STOP HERE
  -----            IF YOU ONLY TYPE ONE COPY MARKER,
                          PRINTING STARTS THERE AND
                          CONTINUES TO END OF TEXT
  -----            USE "CTRL D" TO DELETE EACH
                          COPY MARKER AFTER PLACING
                          CURSOR OVER EACH COPY MARKER
                          (ONE AT A TIME)


SUPPRESSING THE PRINTING OF PART OF TEXT:

*   -----           POSITION CURSOR AFTER A BOUNDARY  43
                          MARKER AND BEFORE THE TEXT YOU
                          WANT TO BYPASS
  >P=N(CR)         FORMAT LINE TO SUPPRESS PRINTING
  -----            POSITION CURSOR AFTER A BOUNDARY
                          MARKER AND BEFORE THE TEXT WHERE
                          YOU WANT PRINTING TO RESUME
  >P=Y(CR)         FORMAT LINE TO RE-ENABLE PRINTING
  -----            IF YOU USE ONLY THE P=N COMMAND,
                          PRINTING WILL TERMINATE AT
                          THAT POINT
  -----            THE FORMAT COMMANDS ABOVE MAY BE
                          INCLUDED ON A FORMAT LINE WITH
                          OTHER FORMAT COMMANDS


WINDOW SUPPRESS:

*   -----           ADVISABLE TO LEAVE DEFAULTED     43


SAVING TO DISK:

*   -----           POSITION CURSOR AFTER THE LAST   21,44

```
                        (CR) AT END OF TEXT SO THAT
                        EXTRA SPACES CAN BE DELETED
    CTRL D
    CTRL F
    BREAK
THEN USE ONE OF THE FOLLOWING AS APPROPRIATE:
    S FILENAME(CR)   TO SAVE A NEW DOCUMENT TO DISK --
                        OR TO A NEW DISK
    S(CR)            TO SAVE A DOCUMENT PREVIOUSLY
                        LOADED FROM DISK
    S,A FILENAME(CR)  TO SAVE A NEW DOCUMENT IN ASCII
    S,A              TO SAVE IN ASCII A DOCUMENT
                        PREVIOUSLY LOADED FROM DISK
    -----            ASCII FORMAT MAY BE USED TO LOAD/SAVE
                        BASIC PROGRAMS, DATA FILES, AND
                        QUILL DRIVER FILES
```

LOADING FROM DISK:

```
*    BREAK                                         21,45
THEN USE ONE OF THE FOLLOWING AS APPROPRIATE:
    L FILENAME(CR)   TO LOAD A DOCUMENT FOR THE FIRST
                        TIME -- ANYTHING IN MEMORY IS LOST
    L(CR)            TO RE-LOAD A DOCUMENT PREVIOUSLY LOADED
    L,C FILENAME(CR)  LOAD THE FILE AND APPEND IT TO
                        ANY TEXT IN MEMORY
```

## MORE SCRIPSIT ZAPS - Submitted by Barry Kornfeld
================================================

After all of the zaps have been zapped and the patches patched, SCRIPSIT became (like Mary Poppins) practically perfect in every area except for one thing; the cursor is too slow! Without a real scroll command, we have nought but the cursor to get us up and down the text. That can take a lot of patience with a big document.

Thanks to Skip Taylor of Lancaster, CA, my cursor is zipping around like Dancin' Demon. Here's how to juice up yours:

```
            To increase cursor speed:
                Relative sector 15, MOD BA
                Change from: 01 AC 0D CD
                        to: 01 0A 00 CD
```
(NB Changing to FF FF would be the slowest movement. The smaller the number, the faster the cursor moves. 0A 00 is pretty fast).

The following is from THE VOICE OF THE '80 NEWSLETTER of FAIRFIELD COUNTY TRS-80 USERS GROUP where Alan Abrahamson edits one of the liveliest newsletters around. It will shorten the delay between keypress and cursor movement in the repeat mode.

```
                Relative sector 14, MOD C4
                Change from: 61 21 00 04 22
                        to: 61 21 00 03 22
```

## LAST MEETING
============

We had a panel of four speakers, each of whom spoke about one of four word processing programs: Barry Kornfeld spoke about SCRIPSIT, Stan Milgraum spoke about LAZY WRITER, Walter Gorkiewcz spoke about IBM SCRIPT, and Lou Shapiro spoke about PENCIL. The presentations were excellent, and our members showed great interest by asking many questions. I am sure that we could learn a lot more if we had another session with this panel.

Kal gave his regular Assembly Language lesson, and it was excellent as usual. The Hardware/Software clinic this time was essentially a discussion of the word processing programs.

One of our members made arrangements to buy group purchases of diskettes at a discount price, and another member did similarly for connectors with gold contacts for the connection between the keyboard and the expansion interface.


## C O R R E C T I O N
====================

In the last newsletter, there was a letter from Larry Epstein, in which he thanked us for the opportunity to address our group. The subject was the Corvus hard disk drive for which Larry is a distributor. He indicated that help was needed for Model I Level II BASIC & Assembly Language programming. The telephone number that was given to call was incorrect. The correct number is 236-3173.


## DRIVING YOUR DRIVES INTO THE GROUND - by Barry Kornfeld
==========================================================

Disk drives, like cars, can be successfully pushed beyond their rated limits. A 35ms, 35-track Shugart can be pushed to run successfully at 20ms and 37 tracks just as an ordinary car can be pushed to run at sports car speeds, but for how long. Briefly, I tried running my Shugarts at 20ms and the normally quiet drives whined like banshees.

We learn about pushing drives from magazines and newsletters and assume because it is in print the author knows disk drive mechanisms inside and out. I'm afraid that invariably, the author is a software type who has merely found a 'soup-up' zap and assumes that if the drive reads and writes track 37 at 20ms, then everything is OK.

I don't pretend to know exactly what the short or long-term effect of any of these 'overruns' is. I do know that the people at Shugart's eastern regional repair center simply say: 'DON'T'.

Application for membership in KINGS BYTE TRS-80 USERS GROUP

You don't have to live in Brooklyn to become a member.

NAME........................................................

ADDRESS.....................................................

CITY.........................STATE............ZIP...........

         Enclosed is fifteen dollars ($15) for membership in
KINGS BYTE TRS-80 USERS GROUP.

         Make check payable to: KINGS BYTE COMPUTER CLUB.

         Send this form (or copy) to:

         TREASURER
         KINGS BYTE TRS-80 USERS GROUP
         c/o MORTY LIBOWITZ
         1063 EAST 84 STREET
         BROOKLYN, NY  11236

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